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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/085,075	03/01/2002	Peter C. Strickland	137P36US-1	9132	
7590 11/25/2003			EXAM	EXAMINER	
Shapiro Cohen			PHAN, THO GIA		
P.O. Box 3440 Station D			ART UNIT	PAPER NUMBER	
Ottawa, ON K1P 6P1			2821		
CANADA			DATE MAILED: 11/25/2003	DATE MAILED: 11/25/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Applicati n No.	Applicant(s)	
	10/085,075	STRICKLAND, PETER C.	
Office Action Summary	Examiner	Art Unit	
	Tho G. Phan	2821	
The MAILING DATE f this communication appeared for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be till be statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on <u>01 M</u>	March 2002.		
2a) This action is FINAL . 2b) ☐ This	action is non-final.		
3) Since this application is in condition for allowated closed in accordance with the practice under the condition of the condition.			
Disposition of Claims			
 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed as a composition and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the correct of the control of the correct of the correc	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. §§ 119 and 120			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority documents. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the first 37 CFR 1.78. a) ☐ The translation of the foreign language pr 14) Acknowledgment is made of a claim for domest reference was included in the first sentence of the service of t	Its have been received. Its have been received in Applicate the price of the certified copies not receive the priority under 35 U.S.C. § 119 (rest sentence of the specification of the certified copies not receive the priority under 35 U.S.C. § 120 (rest sentence of the specification of the priority under 35 U.S.C. §§ 120 (received)	cion No ed in this National Stage ed. (e) (to a provisional application) or in an Application Data Sheet. ceived. O and/or 121 since a specific	
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)	

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DETAILED ACTION

REMARKS

Applicant was informed on 10/27/03 that this application will be "Reopen Prosecution".

1. The indicated allowability of claims 1-8 are withdrawn in view of the newly discovered reference(s) to Hsieh (4,358,771) and Knop et al. (4,626,863).

Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3 and 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Hsieh (4,358,771).

Hsieh in figure 9 discloses a square (which includes rectangular)-rimmed parabolic antenna reflector P1 (see col.9, lines 65-66) with "truncation walls" similar to that of the

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applicant's embodiment of figure 3, an antenna feed G with phase center at the focal point of the reflector, each wall has a length equal to a maximum axial extent of the rectangular/square rim (because the truncation wall do not extend beyond the outer corners of the parabolic reflector P1, see figure 9).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hsieh in view of Knop et al. (4,626,863).

Hsieh has been discussed above but fails to disclose that the walls are lined with a material that absorbs electromagnetic energy as recited in claims 4 and 8. The Knop et al reference teaches figure 1 for a similar reflector 10 with a "wall" 32 lined with microwave (ie, electromagnetic energy) absorbing material (col.4, lines 62-66) in order to minimize side lobes caused by spillover in order to improve the antenna performance (col.8, lines 59-65).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time of the invention to have added electromagnetic absorbing material to the "truncation walls" of the

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parabolic reflector of Hsieh as taught by Knop et al. because such a modification would have advantageously reduced unwanted sidelobes thereby suggesting the modification.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner THO G. PHAN whose telephone number is (703) 308-3051.

- 7. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703) 308-0956.
- 8. Papers related to Technology Center 2800 applications **only** may be submitted to Technology Center 2800 by facsimile transmission. Any transmission not to be considered an official response must be clearly marked "DRAFT". The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center Fax Center number is (703) 308-7722 or

(703)-308-7724.

THO G. PHAN

Patent Examiner

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November 10, 2003